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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/781,125	02/18/2004	Christopher S. Johnson	400.149US02	3355
27073 75	27073 7590 08/12/2005		EXAMINER	
LEFFERT JAY & POLGLAZE, P.A. P.O. BOX 581009 MINNEAPOLIS, MN 55458-1009			LE, THONG QUOC	
			ART UNIT	PAPER NUMBER
			2827	···

DATE MAILED: 08/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

···		Application No.	Applicant(s)			
Office Action Summary		10/781,125	JOHNSON, CHRISTOPHER S.			
		Examiner	Art Unit			
		Thong Q. Le	2827			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMALLING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replemal of the period for reply is specified above, the maximum statutory period reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply be timply within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on	<u></u> .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	is action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims	•	·			
5)□ 6)⊠ 7)□	4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-44 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Applicati	ion Papers					
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E					
Priority (under 35 U.S.C. § 119					
a)(Acknowledgment is made of a claim for foreig All b) Some * c) None of: Certified copies of the priority documents. Certified copies of the priority documents. Copies of the certified copies of the priority documents. application from the International Bureaction for a list	nts have been received. Its have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	• •	4) 🗍 Interview Summary	(PTO-413)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 PT	5) Notice of Informal P 6) Other:	Patent Application (PTO-152)			

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DETAILED ACTION

1. Amendment filed on 06/20/2005 has been entered.

2. Claims 1-44 are presented for examination.

Response to Arguments

3. Applicant's arguments with respect to claims 1-44 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1-44 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Nobunaga et al. (U.S. Patent No. 6,304,510).

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Regarding claims 1-3, 9-44, Nobunaga et al. disclose a system (Figure 1), comprising:

a controller (Figure 1, 200); and

a memory device (100) coupled to the controller to receive signals (Figure 1) therefrom, and comprising:

an array of memory cells (Figure 1, Memory Array) arranged in a plurality of addressable banks (BANK0-4, Column 2, lines 66-67), each bank comprises addressable rows and columns of memory cells (Column 2, lines 3-4);

a mode register (Figure 1, 130, MODE REGISTER); and

address circuitry (Figure 5, Column 6, lines 12-24) coupled to the mode register to configure the addressable banks in response to a program state of the mode register (Column 4, lines 26-43). More specifically, regarding claims 2-3, Nobunaga et al. disclose wherein the addressable banks can be configured as either four or eight banks (Figure 1, four banks BANK0-BANK3), and the address circuitry selectively routes address signal to either a row decoder or bank decoder (118) in response to the mode register (Column4, lines 4-67, Column 5, lines 1-35).

Regarding claims 4-8,Nobunaga et al. clearly disclosed as discussed above, and the array of X memory cells is Y banks, each having X/y memory cells, and a second state of mode register configures the array into Z banks each having X/Z memory cells (Column 3, lines 64-67, Column 4, lines 1-15, lines 44+ TABLE 1), and wherein the address circuitry comprises column row and bank address decoders (Figure 1, 118, 122), and the address circuitry comprises a multiplex circuit (Figure 1, 117).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai V. Ho can be reached on 571-272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q. Le
Primary Examiner
Art Unit 2827

THONG LEI
PRIMARY EXAMINER